

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re application of: **Makoto KAWABATA, et al.**

Serial Number: **Not Yet Assigned**

Filed: **April 20, 2004**

For: **MAGNETIC RING UNIT AND MAGNETIC MEMORY DEVICE**

INFORMATION DISCLOSURE STATEMENT

Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

April 20, 2004

Sir:

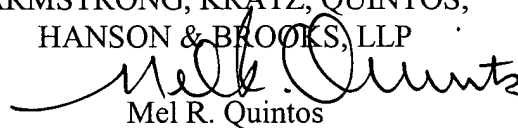
In compliance with 37 CFR 1.56, Applicants call to the attention of the Patent and Trademark Office the references listed on the attached PTO-1449.

A copy of each of the references is enclosed herewith.

In the event there are any fees due in connection with the filing of this paper, please charge Deposit Account No. 01-2340.

Respectfully submitted,

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PATENT TRADEMARK OFFICE

Enclosures: PTO-1449; References (7)

INFORMATION DISCLOSURE STATEMENT PTO-1449	Atty. Docket No. 040129	Serial No. New Application
	Applicant(s): Makoto KAWABATA, et al.	
	Filing Date: April 20, 2004	Group Art Unit: Not Yet Assigned

U.S. PATENT DOCUMENTS

Examiner Initial	Document No.	Name	Date	Class	Subclass	Filing Date (If appropriate)
_____	AA					
_____	AB					

FOREIGN PATENT DOCUMENTS

		Document No.	Date	Country	Translation (Yes or No)
_____	AC	2003-31776	01/31/03	Japan	Yes-Abstract/Discussed in the specification
_____	AD	2002-299584	10/11/02	Japan	Yes-Abstract/Discussed in the specification
_____	AE	2001-84758	03/30/01	Japan	Yes-Abstract/Discussed in the specification
_____	AF				

OTHER DOCUMENTS

_____	AG	J.-G. Zhu, et al.; "Ultrahigh density vertical magnetoresistive random access memory (invited)"; <i>Journal of Applied Physics</i> ; Vol.87; No. 9; May 1, 2000; pp. 6668-6673./Discussed in the specification.		
_____	AH	M. Kläui et al.; "Vortex circulation control in mesoscopic ring magnets"; <i>Applied Physics Letters</i> ; Vol. 78; No. 21; May 21, 2001; pp. 3268-3270./Discussed in the specification.		
_____	AI	M. Schneider, et al.; "Magnetic switching of single vortex permalloy elements" <i>Applied Physics Letters</i> ; Vol. 79; No. 19; November 5, 2001; pp. 3113-3115.		
_____	AJ	R. Nakatani, et al; "Magnetization Reversal with In-Plane Magnetic Field in Asymmetric Ring Dots"; <i>Japanese Journal of Applied Physics</i> ; Vol. 42; No. 1; January 2003; pp. 100-101.		
<table border="1" style="width: 100%;"> <tr> <td style="width: 50%;">Examiner</td> <td style="width: 50%;">Date Considered</td> </tr> </table>			Examiner	Date Considered
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